

IFW

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/527, 552  
Source: PCT  
Date Processed by STIC: 12/08/2005

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 12/08/2005

PATENT APPLICATION: US/10/527,552

TIME: 10:41:00

Input Set : A:\32677\_sequence listing.txt

Output Set: N:\CRF4\12082005\J527552.raw

3 <110> APPLICANT: Sandoz GmbH  
 5 <120> TITLE OF INVENTION: Process for production of cephalosporin C  
 7 <130> FILE REFERENCE: IB/G-32677A/BCK  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/527,552  
 C--> 10 <141> CURRENT FILING DATE: 2005-03-11  
 12 <160> NUMBER OF SEQ ID NOS: 21  
 14 <170> SOFTWARE: PatentIn version 3.2  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 526  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Acremonium chrysogenum  
 21 <400> SEQUENCE: 1  
 23 Met Ala Ser Pro Ile Ala Ser Ala Ala Leu Lys Ala Arg Ile Arg Arg  
 24 1 5 10 15  
 27 Pro Ser Met Leu Lys Lys Leu Cys Lys Pro Gln Asp Leu Met His His  
 28 20 25 30  
 31 Phe Pro Asn Gly Ser Tyr Ile Gly Trp Ser Gly Phe Thr Gly Val Gly  
 32 35 40 45  
 35 Tyr Pro Lys Lys Met Pro Thr Tyr Met Ala Asp His Val Glu Gln Asn  
 36 50 55 60  
 39 Gly Leu Gln Gly Lys Leu Lys Tyr Ser Leu Phe Val Gly Ala Ser Ser  
 40 65 70 75 80  
 43 Gly Ala Glu Thr Glu Asn Arg Trp Ala Ser Leu Asp Met Ile Asp Arg  
 44 85 90 95  
 47 Arg Thr Pro His Gln Val Gly Lys Ala Ile Ser Lys Gly Ile Asn Glu  
 48 100 105 110  
 51 Gly Lys Ile His Phe Phe Asp Lys His Leu Ser Met Phe Pro Val Asp  
 52 115 120 125  
 55 Leu Val Tyr Gly Tyr Tyr Thr Lys Asp Arg Pro His Asn Lys Leu Asp  
 56 130 135 140  
 59 Val Val Val Val Glu Ala Thr Asp Ile Lys Glu Asp Gly Ser Ile Val  
 60 145 150 155 160  
 63 Pro Gly Ala Ser Val Gly Ala Thr Pro Glu Leu Ile Gln Met Ala Asp  
 64 165 170 175  
 67 Lys Ile Ile Ile Glu Val Asn Thr Ser Leu Pro Ser Phe Glu Gly Leu  
 68 180 185 190  
 71 His Asp Ile Thr Met Thr Asp Leu Pro Pro Leu Arg Lys Pro Tyr Leu  
 72 195 200 205  
 75 Val Met Gly Val Glu Asp Arg Ile Gly Arg Thr Ser Ile Pro Ile Asp  
 76 210 215 220  
 79 Pro Glu Lys Val Val Gly Ile Leu Glu Ser Asp Tyr Gln Asp Ala Thr  
 80 225 230 235 240  
 83 Ala Pro Asn Ala Glu Ala Asp Glu Ser Ala Asn Lys Ile Ala Gly His

(pg-6)

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87 Leu Ile Glu Phe Phe Glu His Glu Val Ala His Gly Arg Leu Pro Asn
88          260          265          270
91 Ser Leu Leu Pro Leu Gln Ser Gly Ile Gly Asn Val Ala Asn Ala Ile
92          275          280          285
95 Ile Gly Gly Leu Asp Asn Ser Asn Phe Arg Asn Leu Lys Val Trp Thr
96          290          295          300
99 Glu Val Ile Gln Asp Thr Phe Leu Asp Leu Phe Asp Ser Gly Arg Leu
100 305          310          315          320
103 Asp Phe Ala Thr Ala Thr Ser Ile Arg Phe Ser Pro Asp Gly Phe Arg
104          325          330          335
107 Arg Phe Tyr Asp Asn Trp Glu Ala Tyr Tyr Gly Lys Leu Leu Leu Arg
108          340          345          350
111 Ser Gln Gln Val Ser Asn Ser Pro Glu Ile Ile Arg Arg Leu Gly Val
112          355          360          365
115 Ile Ala Met Asn Thr Pro Val Glu Val Asp Ile Tyr Ala His Ala Asn
116          370          375          380
119 Ser Thr Cys Val Met Gly Ser Arg Met Leu Asn Gly Leu Gly Gly Ser
120 385          390          395          400
123 Ala Asp Phe Leu Arg Ser Ser Lys Tyr Ser Ile Met His Thr Pro Ser
124          405          410          415
127 Thr Arg Pro Ser Lys Thr Asp Pro His Gly Val Ser Cys Ile Val Pro
128          420          425          430
131 Met Cys Thr His Ile Asp Gln Thr Glu His Asp Leu Asp Val Ile Val
132          435          440          445
135 Thr Glu Gln Gly Leu Ala Asp Val Arg Gly Leu Ser Pro Arg Glu Arg
136          450          455          460
139 Ala Arg Val Ile Ile Lys Lys Cys Ala His Pro Val Tyr Gln Pro Ile
140 465          470          475          480
143 Leu Thr His Tyr Phe Glu Lys Ala Glu Ser Asp Cys Leu Arg Lys Gly
144          485          490          495
147 Trp Gly His Glu Pro His Leu Leu Phe Asn Ser Phe Asp Leu His Lys
148          500          505          510
151 Ala Leu Val Glu His Gly Ser Met Gln Lys Val Gly Gln Trp
152          515          520          525
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156 <211> LENGTH: 1765
157 <212> TYPE: DNA
158 <213> ORGANISM: Acremonium chrysogenum
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163 aagaagctgt gcaagcccca ggatttgatg catcacttcc ccaatggctc gtacattggc      120
165 tgggtccggt tcaccggcgt cggtacccg aagtgagttc caccgtcatc ccgctccaca      180
167 gtaggcgcag ccggcccgtt gacagtcccc gacaggaaaa tgccgacctc catggccgat      240
169 cacgtcgagc agaacggcct tcagggcaag ctgaagtact cgctattcgt gggcgcatcg      300
171 tcgggtgctg agacagagaa tcgctgggcg tcgctcgaca tgattgatag gaggaccccg      360
173 catcaggtcg gcaaggccat ctccaagggc atcaatgagg gcaagatcca cttcttcgac      420
175 aagcatctct ccattgtccc cgtggacctt gtatacgtac gtcaacgatg atcccttggg      480
177 atgtgcatgt actacgagta cctggcgcta acatccggtc agggctacta cacaaggat      540

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Input Set : A:\32677\_sequence\_listing.txt

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183 gtgagcaatt  tcgatttcta gcgaggggcg cagcaggacc tgacatctcc ctgtgcagat      720
185 cattatcgag  gtcaaacact cactgccttc attcgagggt ctccacgaca tcaccatgac      780
187 cgacctgccc  ccgctacgga agccctatct cgtcatgggt gtcgaggacc gcatcggcag      840
189 gacctctatc  cctatcgacc ccgagaaggt tgtaggcatc ctggaatccg actaccagga      900
191 cgccactgcc  cccaacgccc aggccgacga gagtgcgaac aagattgctg gccacttgat      960
193 tgagttcttc  gagcacgagg tcgcccacgg ccgtctcccg aactccctcc ttcccctcca     1020
195 gtccggcatc  ggcaacgctc ccaacgccat catcgggtggc ctcgacaact ccaacttccg     1080
197 caacctcaag  gtctggactg aggttatcca ggacaccttc ctcgacctct tcgactcggg     1140
199 ccgcctcgac  tttgccacgg ccacctctat ccgcttctcc ccgacgggtt tccgcccgtt     1200
201 ctacgacaac  tgggaggcct actacggcaa gtcctcctc  cgcagccagc aggtgtccaa     1260
203 ctgcccagag  atcatccgcc gccttgggtg cattgccatg aacacccccg tcgaggtcga     1320
205 catctacgcc  cacgccaact ccacctgcgt catgggctcg cgcagtctca acggcctggg     1380
207 cggctccgcc  gacttccctg gctcctccaa gtactctatc atgcacaccc cgtccacccg     1440
209 cccctccaag  accgaccgcg acggcgctct gtgcatcggt cccatgtgca cccacatcga     1500
211 ccagactgag  cacgacctcg acgtcatcgt caccgagcag ggcttggccg acgtgcgcgg     1560
213 cctgagcccc  agggagaggg cccgcgtcat catcaagaag tgcgccacc  cggtctacca     1620
215 gcccatcctg  acccactact ttgagaaggc cgagagcgac tgcctacgca agggctgggg     1680
217 ccacgagccc  catctgctct tcaactcggt tgacctgcac aaggccctcg tggagcacgg     1740
219 aagcatgcag  aaggctcgggc agtgg                                     1765
222 <210> SEQ ID NO: 3
223 <211> LENGTH: 1578
224 <212> TYPE: DNA
225 <213> ORGANISM: Acremonium chrysogenum
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230 aagaagctgt  gcaagcccca ggatttgatg catcacttcc ccaatggctc gtacattggc     120
232 tggtcgggct  tcaccggcgt cggctacccg aagaaaatgc cgacctacat ggccgatcac     180
234 gtcgagcaga  acggccttca gggcaagctg aagtactcgc tattcgtggg cgcacgtcg     240
236 ggtgctgaga  cagagaatcg ctgggcgtcg ctcgacatga ttgataggag gaccccgcat     300
238 caggtcggca  aggccatctc caagggcata aatgagggca agatccactt cttcgacaag     360
240 catctctcca  tgttccccgt ggaccttgta tacggctact acacaaaagga tagaccacac     420
242 aacaagctgg  acgtgggtgg ggtggaggcc accgacatca aagaggacgg aagcattgta     480
244 cccggagctt  cagtcggcgc gacccccgag ctcatccaga tggccgataa gatcattatc     540
246 gaggtcaaca  cctcactgcc ttcattcgag ggtctccacg acatcaccat gaccgacctg     600
248 ccccgctac  ggaagcccta tctcgtcatg ggtgtcgagg accgcatcgg caggacctct     660
250 atccctatcg  accccgagaa ggttgtaggc atcctcgaat ccgactacca ggacgccact     720
252 gccccaaacg  ccgaggccga cgagagtgcg aacaagattg ctggccactt gattgagttc     780
254 ttcgagcacg  aggtcgccca cggccgtctc ccgaactccc tccttcccct ccagtccggc     840
256 atcggaacg  tcgccaacgc catcatcggg ggctctgaca actccaactt ccgcaacctc     900
258 aaggctctgga  ctgaggttat ccaggacacc ttctctgacc tcttcgactc gggccgcctc     960
260 gactttgcca  cggccacctc tatccgcttc tcccccgacg gtttccgccg gttctacgac     1020
262 aactgggagg  cctactacgg caagctcctc ctccgcagcc agcagggtgc caactcgccc     1080
264 gagatcatcc  gccgccttgg tgtcattgcc atgaacaccc ccgtcgaggt cgacatctac     1140
266 gccacgcca  actccacctg cgtcatgggc tcgcgcgatg tcaacggcct gggcggtccc     1200
268 gccgacttcc  tgcgtcctc  caagtactct atcatgcaca ccccgctccac ccgcccctcc     1260
270 aagaccgacc  cgcacggcgt ctcgtgcac  gttcccatgt gcaccacat cgaccagact     1320
272 gagcacgacc  tcgacgtcat cgtcaccgag cagggcctgg ccgacgtgcg cggcctgagc     1380

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274 cccaggggaga gggcccgcg catcatcaag aagtgcgccc acccggtcta ccagcccatc 1440
276 ctgaccact actttgagaa ggccgagagc gactgcctac gcaagggtg gggccacgag 1500
278 ccccatctgc ttttcaactc gtttgacctg cacaaggccc tcgtggagca cggaagcatg 1560
280 cagaagggtcg ggcagtgg 1578
283 <210> SEQ ID NO: 4
284 <211> LENGTH: 2570
285 <212> TYPE: DNA
286 <213> ORGANISM: Acremonium chrysogenum
288 <400> SEQUENCE: 4
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291 gaattagggtg gaattgtgcg caaattgagg ggaatggccc cttatcata taaagtgcc 120
293 atgcgatact atggcggtgc gtggggtgcg gtcggtgtcc ggccggtcga acggagggtcc 180
295 cggtatcaa taggcggtag gccggcattg aatcggttcc accgtattcc agacacccaa 240
297 ggaaggcccg ccacccccag ctccggcctg gggatagcgc cgagtggagc actcacgggg 300
299 gccgtgtttg actcgaagac gcgtcgtgat tggccagaac ttcaccccc tctgccaagt 360
301 attgggtcac gggattcggc gacgtcaacg accccaccgg ccggattac ataaggtgca 420
303 ctgcagctac tacgtagtac tcgtacttgg gaaggaggga cccttggggg cggagggttt 480
305 aaaggcaatg gcttcttcgc tgggtccacc aacctgactc tactctccc ttttacctcg 540
307 ctctctgat tattccctcg tctgcgtctg gatttcatct ctttccctc ccggccctt 600
309 tggatctctg ctctccctc ctctctccc cgcattggtg tgtaaaacca ctgtcccgcg 660
311 gcctcgcgac gagtgcgta ctgcaagccg aaacctcaca atcccttct cacaatggca 720
313 tcaccaatag cctctgccgc cctcaaggcg cgcattcgcc gccctcgat gctcaagaag 780
315 ctgtgcaagc cccaggattt gatgcacac tccccaatg gctcgtacat tggctggtcc 840
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325 gtcggcaagg ccatctcaa gggcatcaat gagggcaaga tccacttct cgacaagcat 1140
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335 aatttcgatt tctagcggag ggcgcagcag gacctgacat ctccctgtgc agatcattat 1440
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347 catcggaac gtgcgcaacg ccatcatcgg tggcctcgac aactccaact tccgcaacct 1800
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355 cgagatcatc cgccgccttg gtgtcattgc catgaacacc ccgctcgagg tcgacatcta 2040
357 cgccacgcc aactccacct gcgtcatggg ctgcgcgatg ctcaacggcc tgggcggtc 2100
359 cgccgacttc ctgcgtcct ccaagtactc tatcatgcac acccgtcca cccgcccctc 2160
361 caagaccgac ccgcacggcg tctcgtgcat cgttcccatg tgcaccaca tcgaccgagc 2220
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365 cccaggggag agggcccgcg tcatcatcaa gaagtgcgcc caccgggtct accagcccat 2340
367 cctgaccac tactttgaga aggcgagag cgactgccta cgcaagggtc ggggccacga 2400

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Input Set : A:\32677\_sequence\_listing.txt

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371 gcagaaggtc gggcagtggt aagattggcg agacgggaga ggcgttggtg taggagttgg 2520
373 aactagaatc agatatacac cctttcatat atgtagataa tggagccatt 2570
376 <210> SEQ ID NO: 5
377 <211> LENGTH: 16032
378 <212> TYPE: DNA
379 <213> ORGANISM: Acremonium chrysogenum
382 <220> FEATURE:
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384 <222> LOCATION: (15909)..(15909)
385 <223> OTHER INFORMATION: n is a, c, g, or t
387 <400> SEQUENCE: 5
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390 acatggacgc aggaaacgca tcattgatac atgcacacgg ggcagcaaat ttagcctggt 120
392 tcactacatg tacatagagg gtacatacca gagcatactg atgggagaaa aagggttcga 180
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412 gccactcgaa gctgagcttg gtgccgtcgt cggccgtctt gatggccggc tccgggtacg 780
414 ggtcgaggta cgggtaacgg atgagcacga ccgacgagag cgtcgtgtca cggcgggagt 840
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424 tcggcaggta gtgcccgc cggatctggg actcgtgctc cttgttgtag gcccggtagg 1140
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458 cgggccactg cgcttggccg aggagagaaa gggtatccat ggcgacaaag gcggctcctg 2160
460 tgggttcggt gccggctttg gagttcactg gtctgggtgg gtggccagct ggatgcatgc 2220

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## RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 12/08/2005

PATENT APPLICATION: US/10/527,552

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Input Set : A:\32677\_sequence listing.txt

Output Set: N:\CRF4\12082005\J527552.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 15909

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:8,9,10,11,12,13,14,15,16,17,18,19,20,21

**VERIFICATION SUMMARY**

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Input Set : A:\32677\_sequence\_listing.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:15900